

Using eciCMYK as working color space for Wide Gamut printers

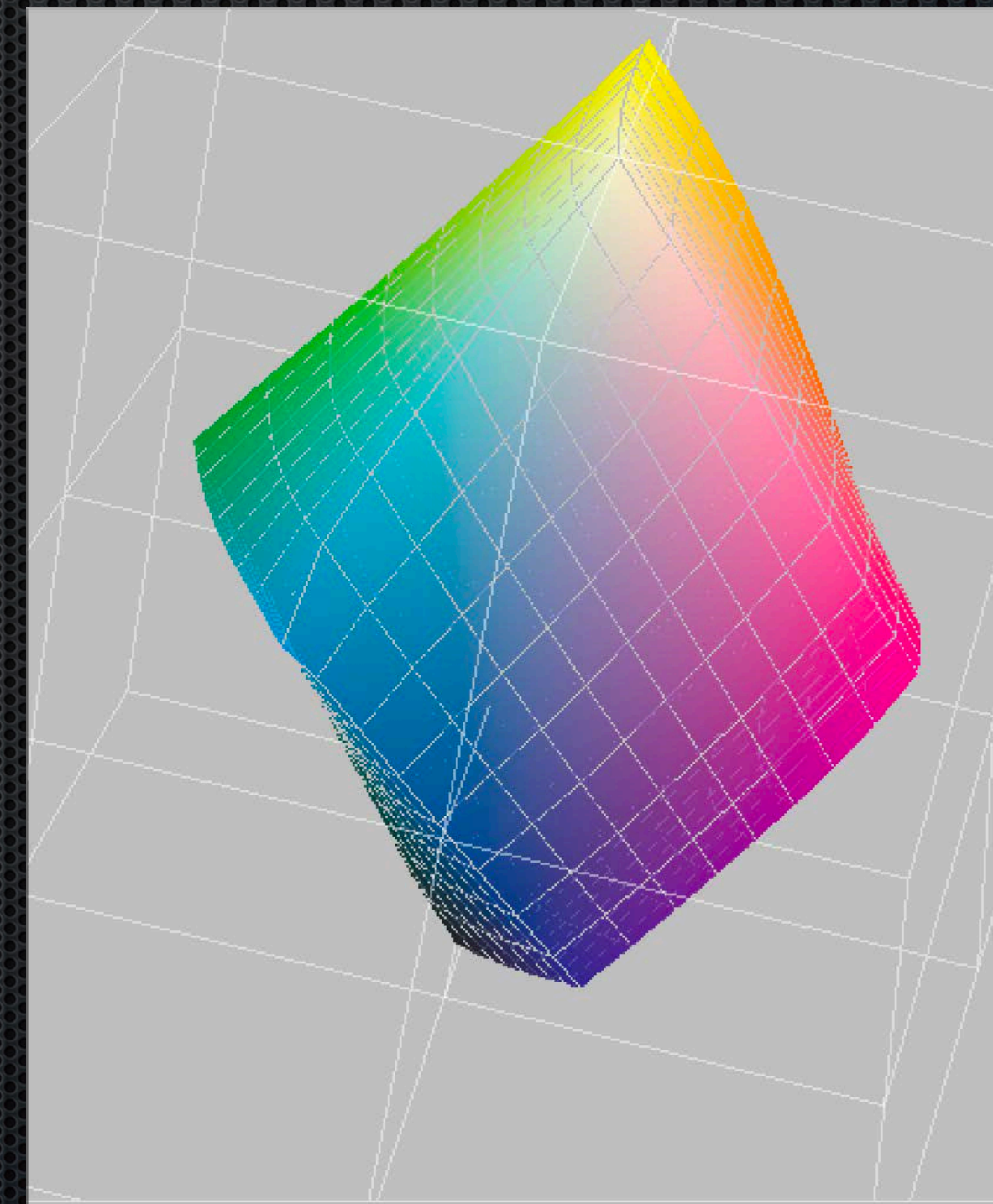
Peter Kleinheider
PrePress Digital, CTO



Bressanone Color Experts' Day May 24, 2019

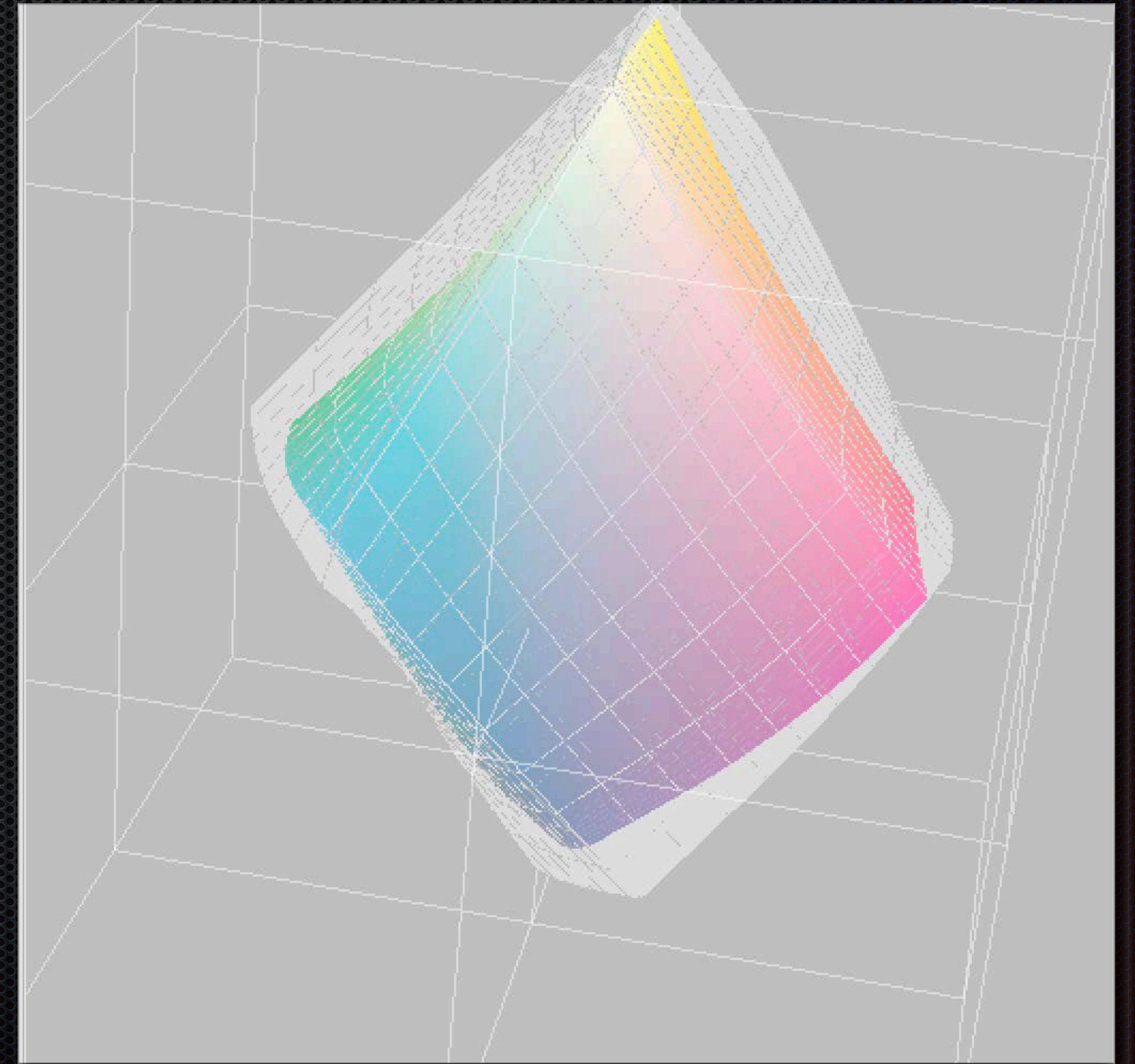
eciCMYK - Fogra53

- ▶ FOGRA53 is a CMYK based exchange space that primarily serves colour communication throughout the print production. It complements the existing 52 reference printing conditions that reflect actual offset based printing conditions. It was developed in light of the completed Fogra research project 10.057, that was establishing tools for a media neutral print workflow.



comparison of Fogra39 to Fogra53

- ✦ color angel of primaries and secondaries is very similar
- ✦ higher chroma
- ✦ different gray aixs





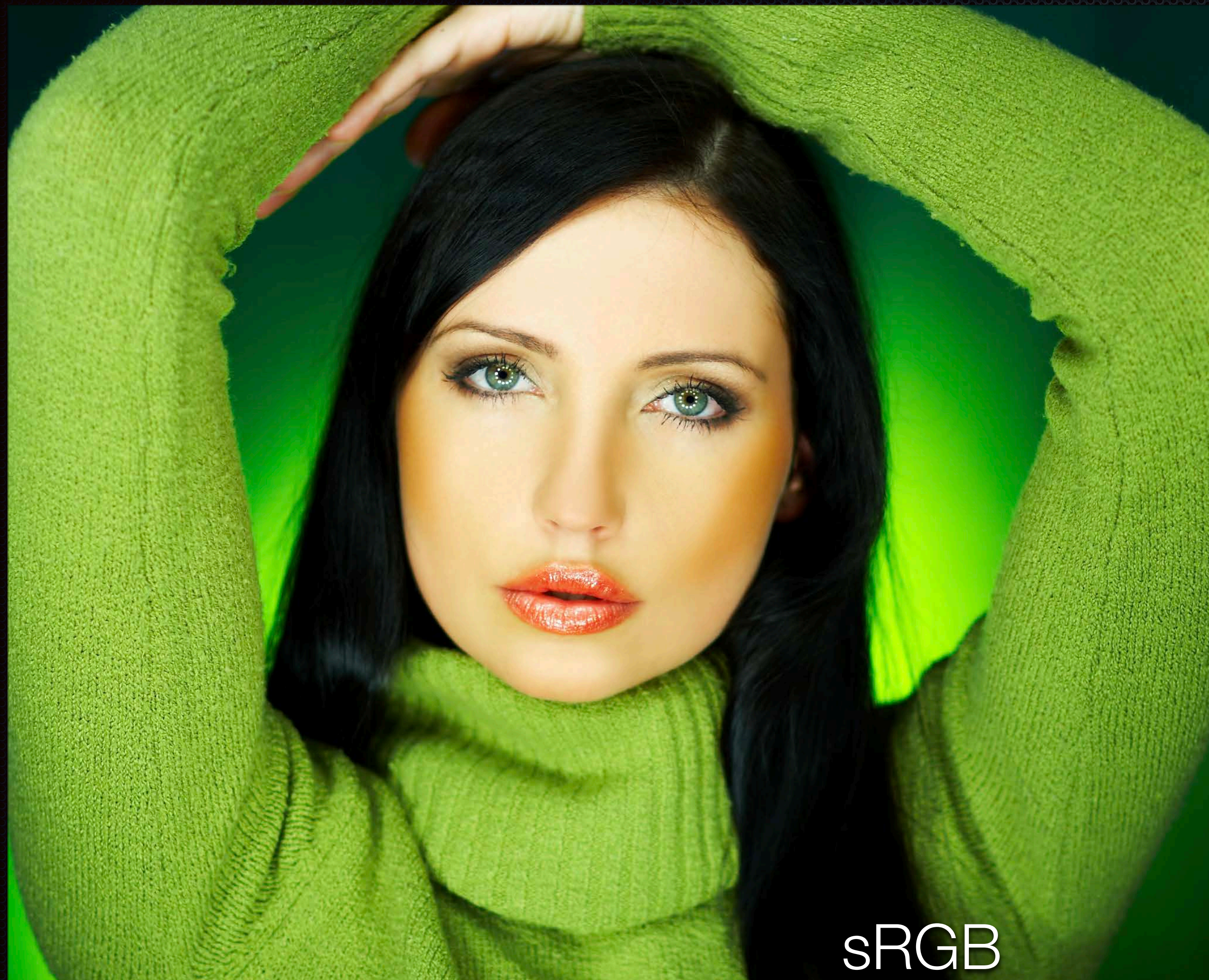
sRGB



ISO coated V2



eciCMYK



sRGB



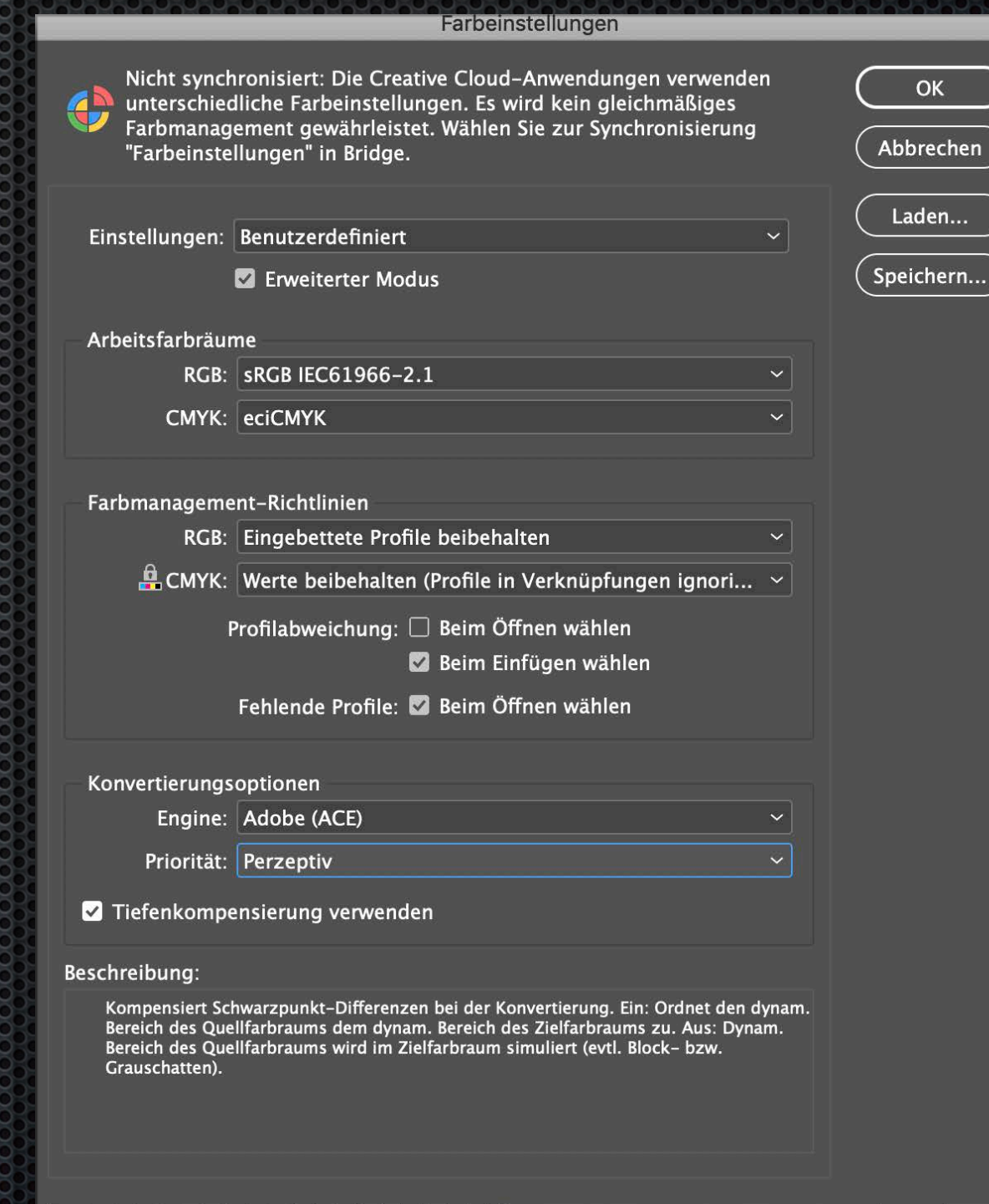
ISO coated V2



eciCMYK

eciCMYK as Output Intent

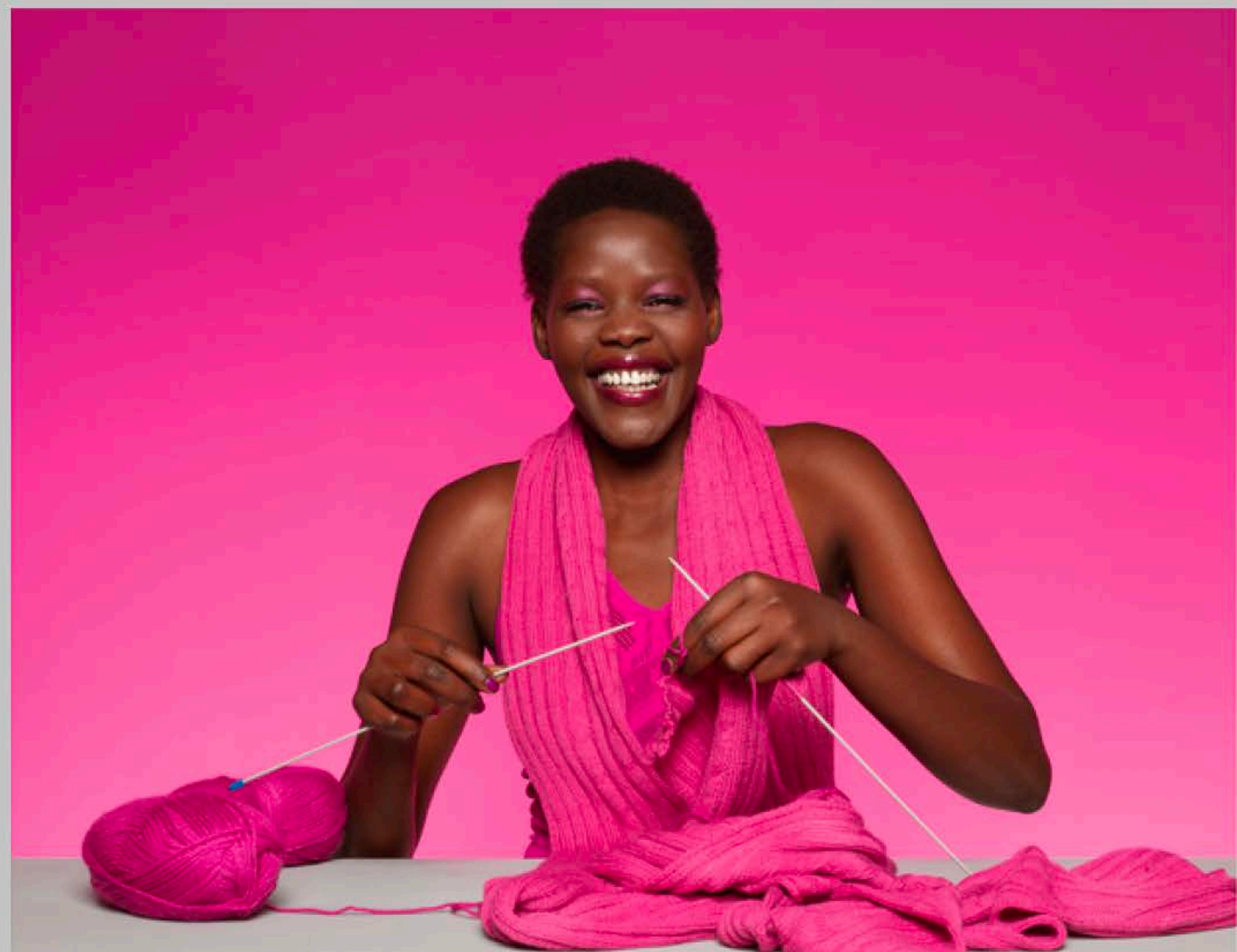
- ▶ What would happen, if someone used eciCMYK as the working color space in Adobe applications



eciCMYK as Output Intent / RGB

3

Stricken macht Spaß



OI: ISO coated V2

3

Stricken macht Spaß



OI: eciCMYK



ECI/bvdm Gray Control Strip (S) • FOGRA39 • v2

OI: ISO Coated V2



ECI/bvdm Gray Control Strip (S) • FOGRA39 • v2

OI: eciCMYK



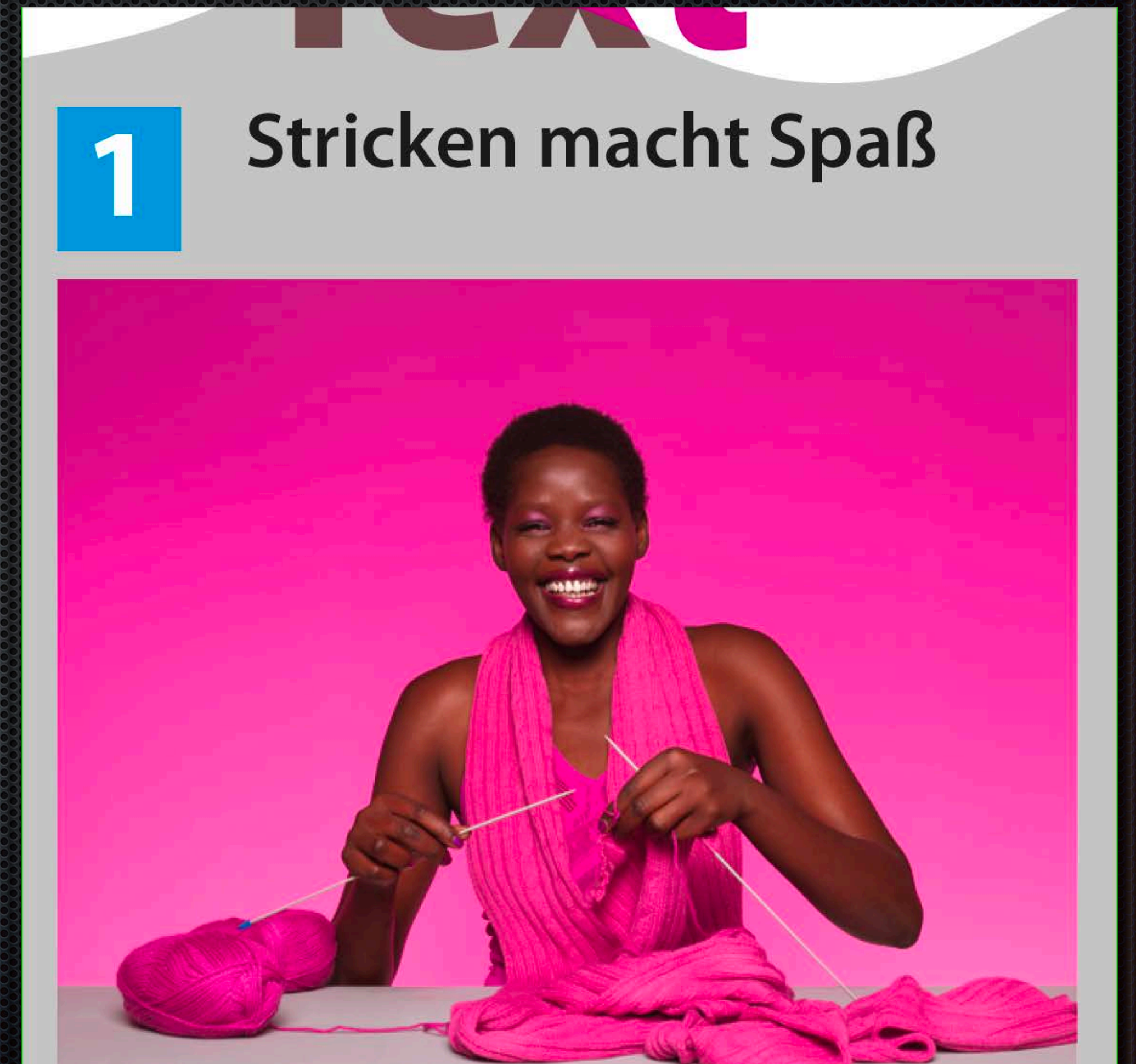
ECI/bvdm Gray Control Strip (S) • FOGRA39 • v2

OI: eciCMYK
DL conversion of CMYK

eciCMYK as Output Intent / CMYK (F39)

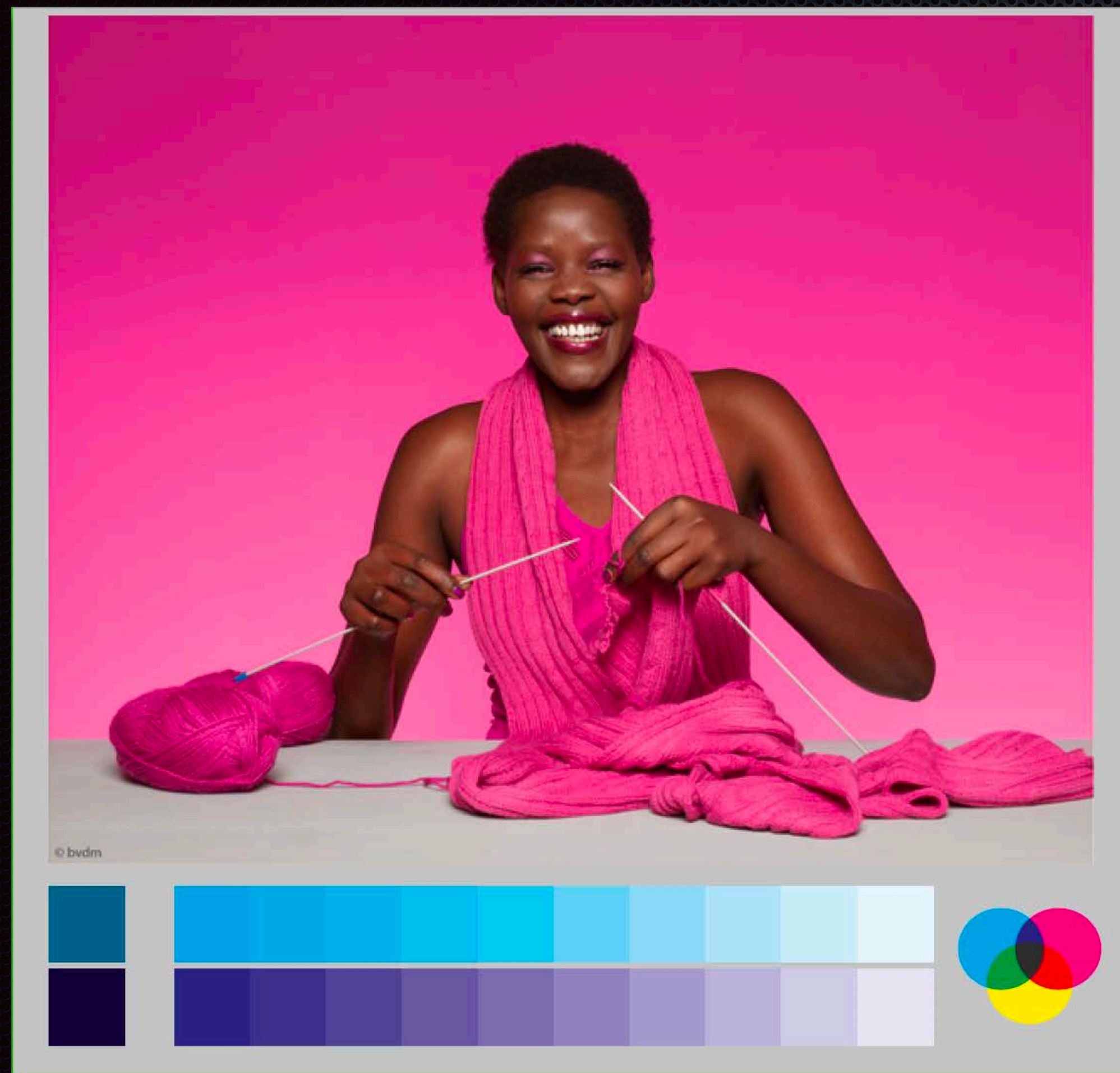


OI: ISO coated V2



OI: eciCMYK

eciCMYK as Output Intent / CMYK (F39)

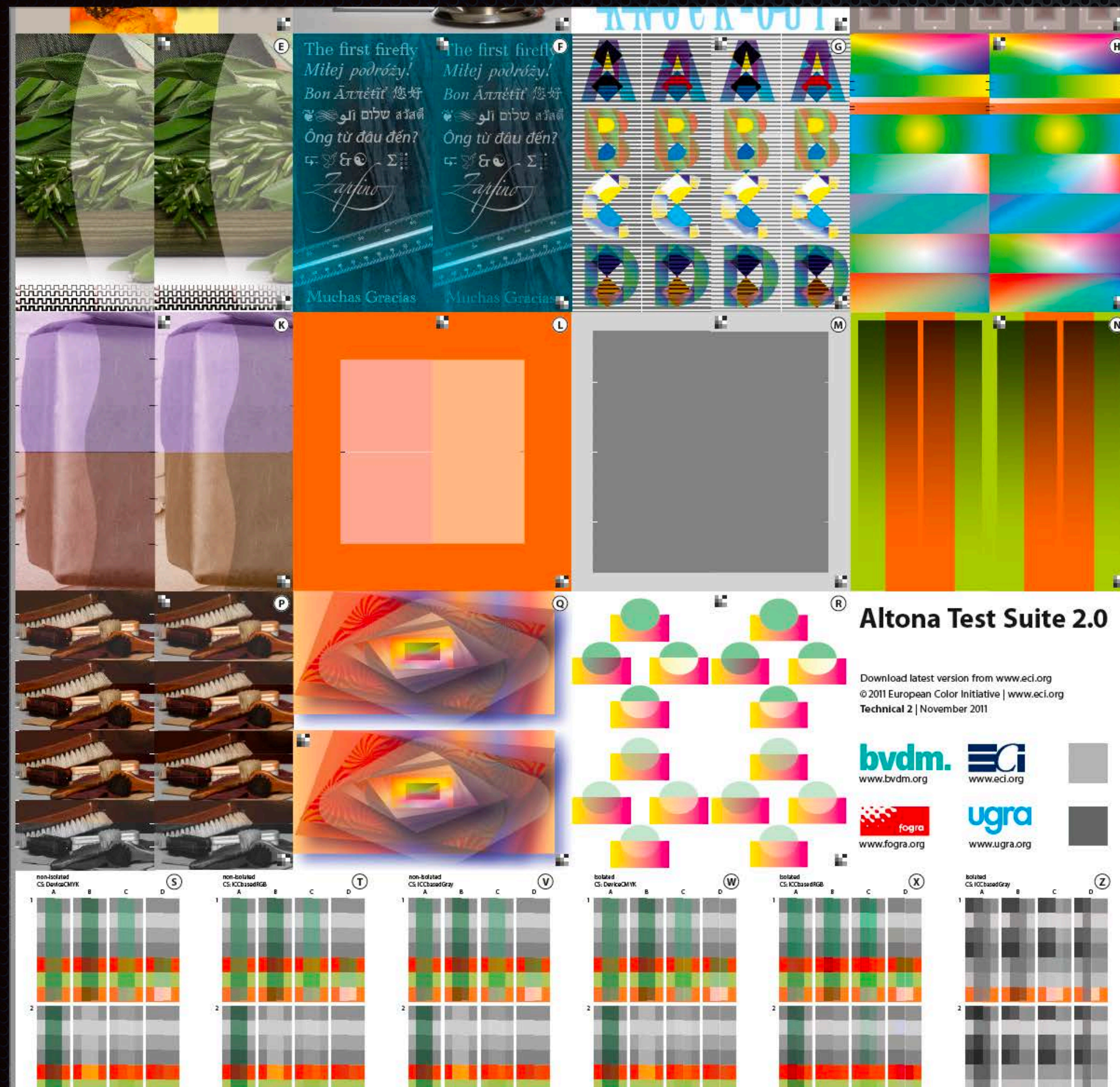


OI: ISO coated V2

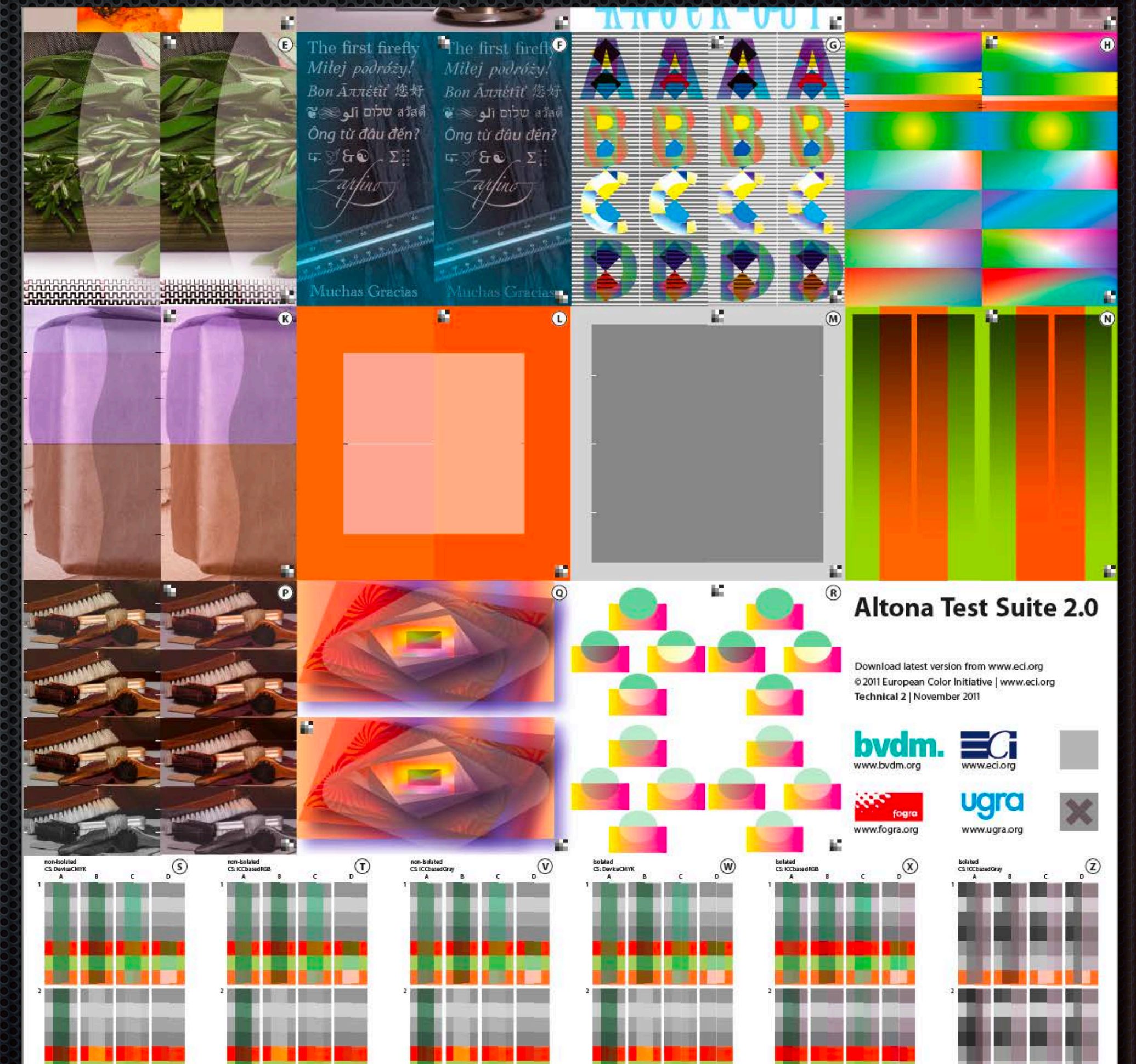


OI: eciCMYK

eciCMYK as Output Intent / CMYK (F39)



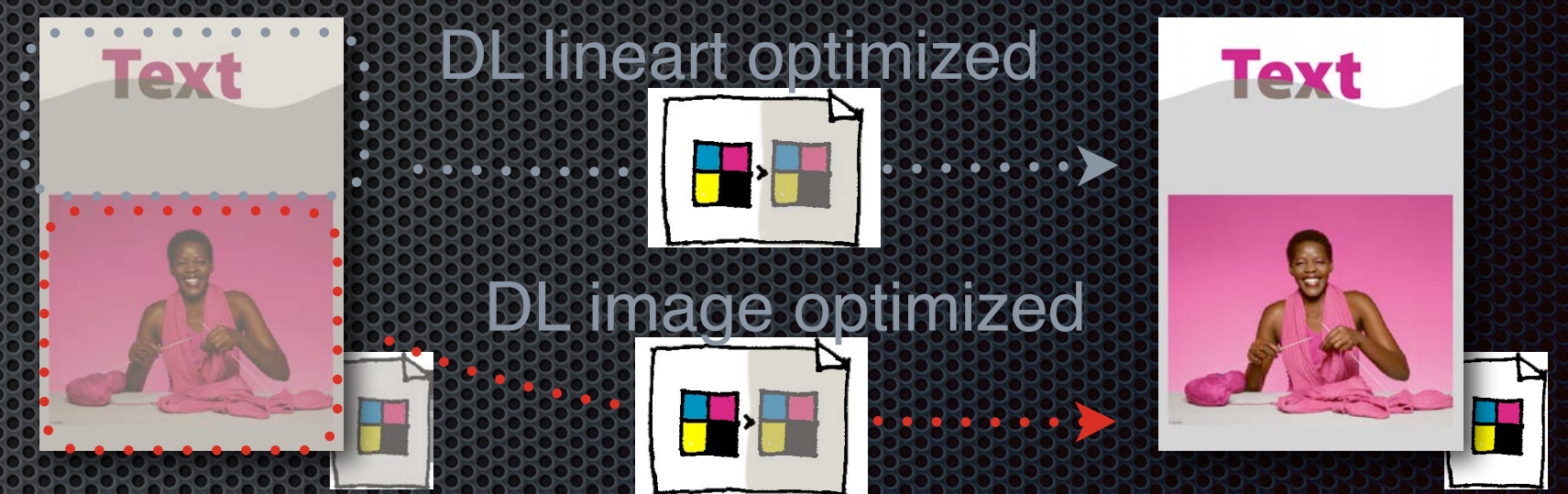
OI: ISO coated V2



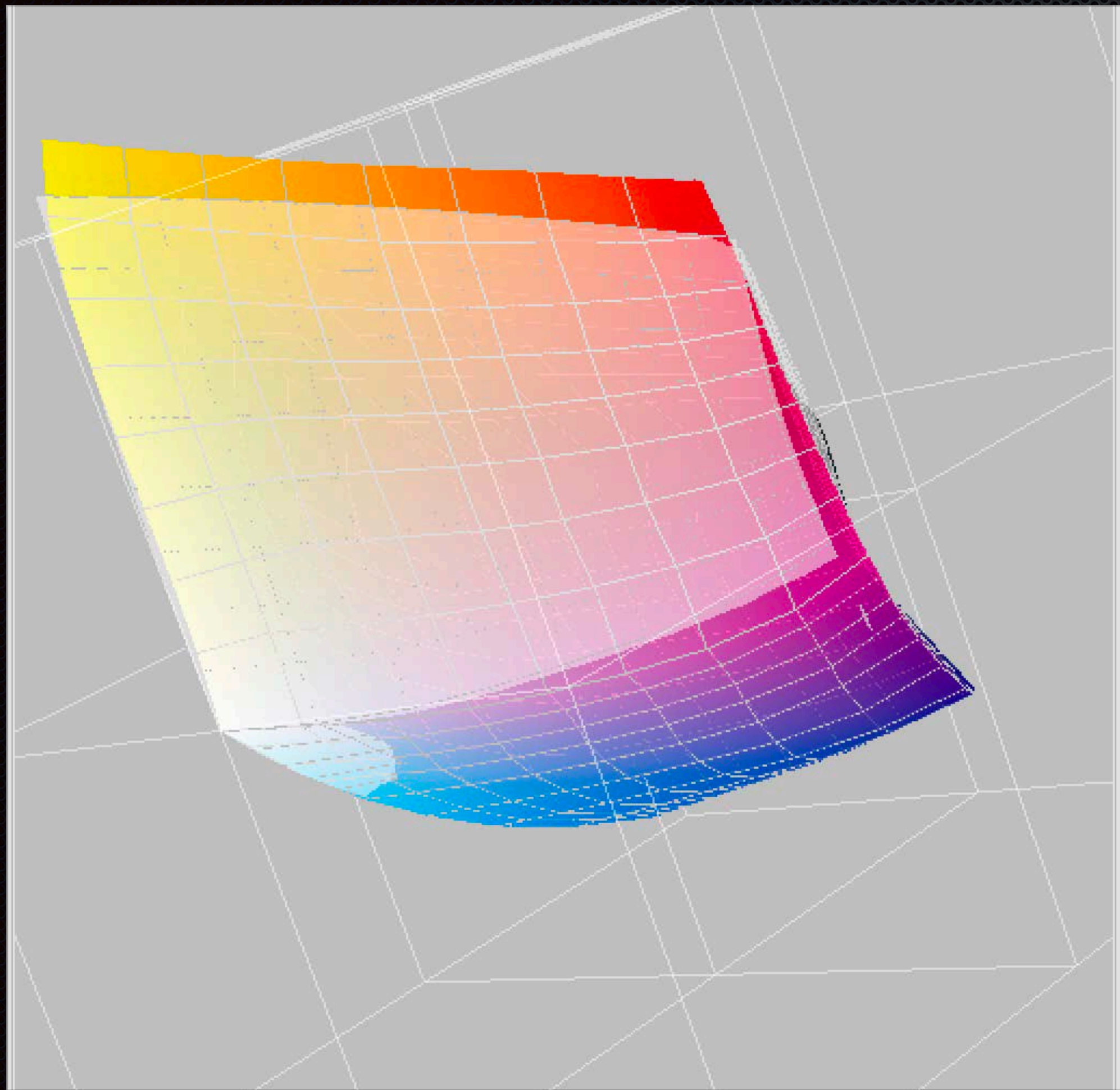
OI: eciCMYK

eciCMYK as Working color space

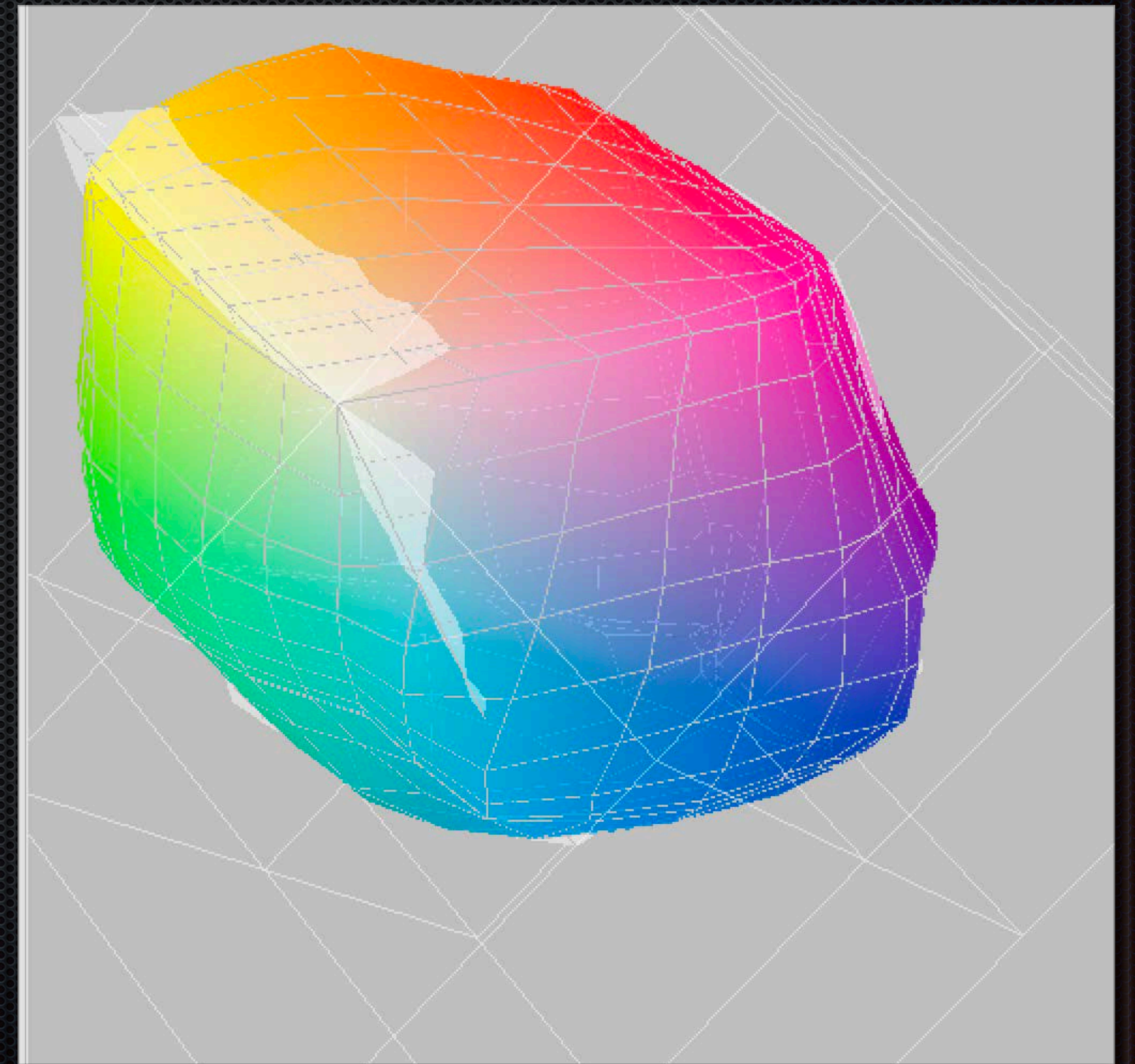
- ▶ works well for RGB images
- ▶ works OK for CMYK vector elements - conversion needed?
- ▶ CMYK images have to get converted (or need to get tagged)



Is eciCMYK really large enough?



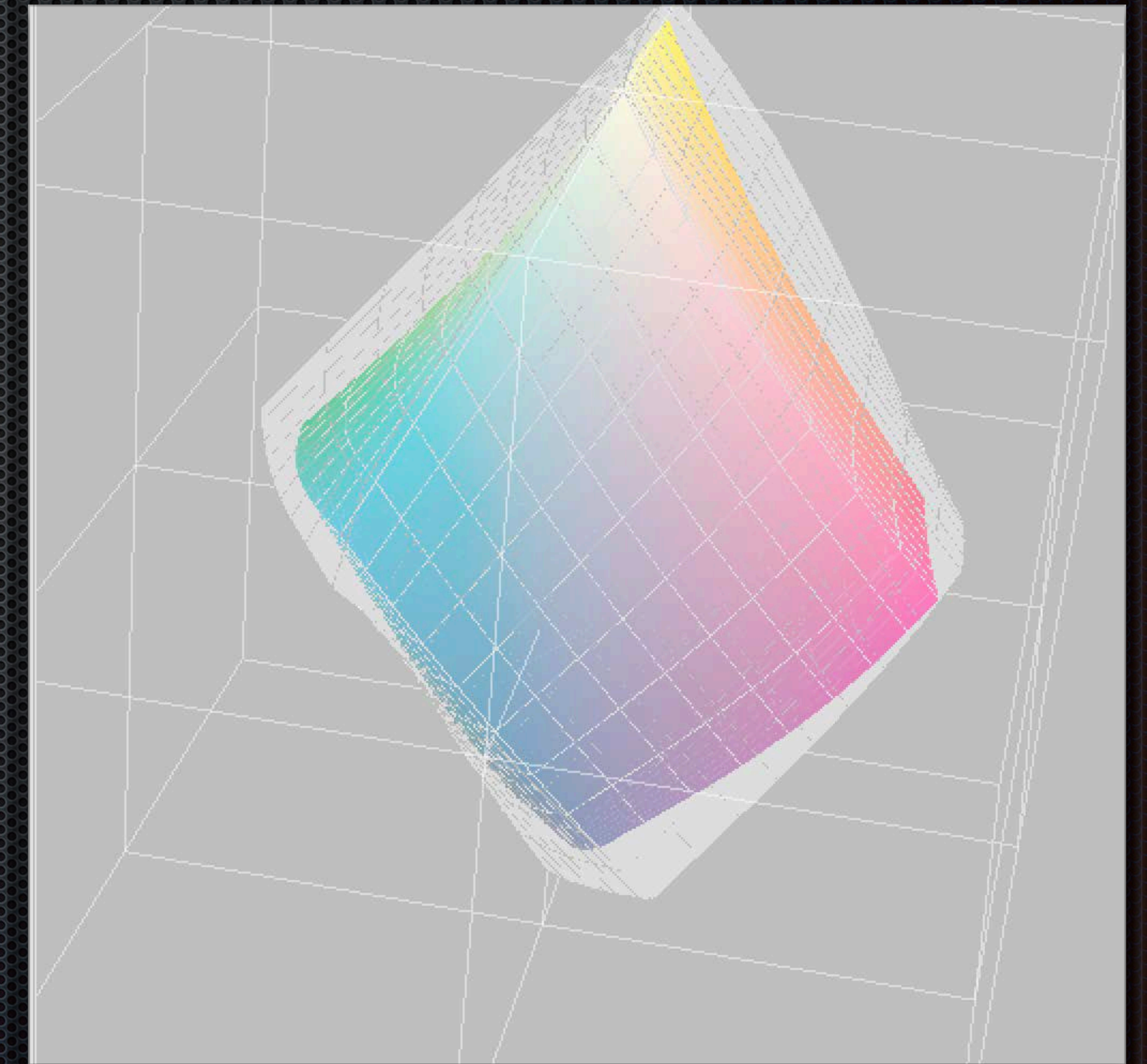
WT250 - CMYK



TAU330 - CMYKOVG

eciCMYK - Fogra53

- ▶ CONS
 - ▶ still too small for CMYK+ printers, when wanting to use the whole gamut
- ▶ PROS
 - ▶ CMYK color model in PDF
 - ▶ predictable colours while using a standardised larger color spaces



Sources

- Images: Shutterstock and roman16
- ICC profile: eciCMYK can get downloaded for free at www.eci.org - together with 3 free devicelink profiles
- Graycon tool: www.eci.org
- Altona technical 2 testpage: www.eci.org
- Composed page: part of color management workshop from Florian Süßl and Peter Kleinheider
- Gamut previews: CoPrA Profile Manager from ColorLogic



Thank you for your interest

Peter Kleinheider - pk@prepress-digital.com

calibrate



Bressanone Color Experts' Day May 24, 2019